

FIG.1

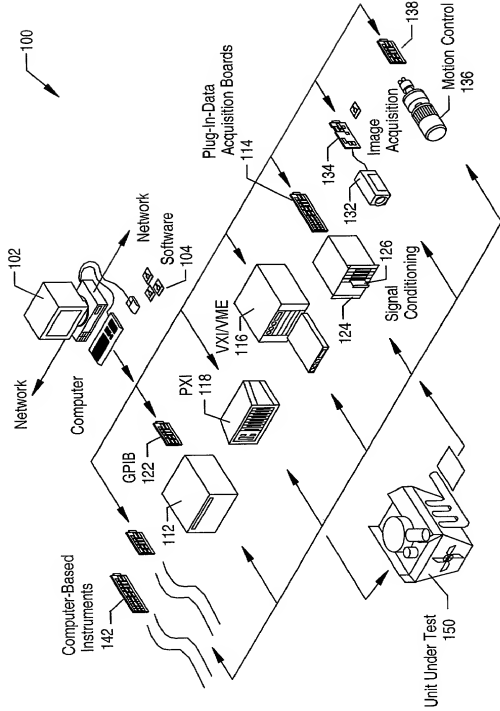


FIG. 2A

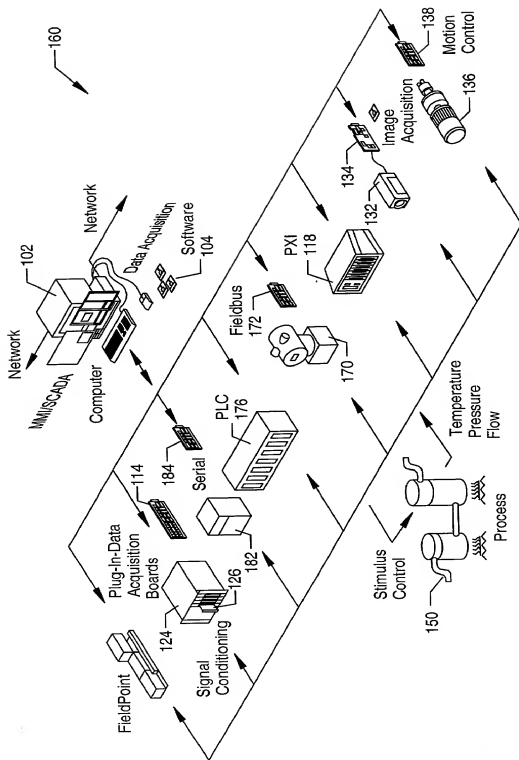


FIG. 2B

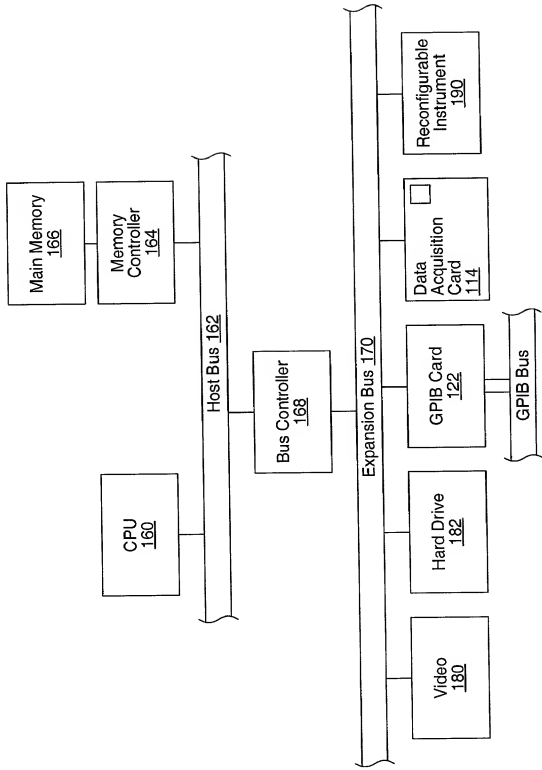


FIG. 3

Developer creates a graphical program generation (GPG) program, wherein the GPG program is operable to generate a plurality of graphical programs, based on received information  
200

Specify program information, e.g., in response to user input, wherein the program information specifies desired functionality to be implemented in a graphical program  
204

execute graphical program generation (GPG) program  
206

GPG program receives information specifying functionality for a graphical program (or graphical program portion)  
208

GPG program programmatically generates a graphical program (or graphical program portion) to implement the specified functionality  
210

FIG. 4

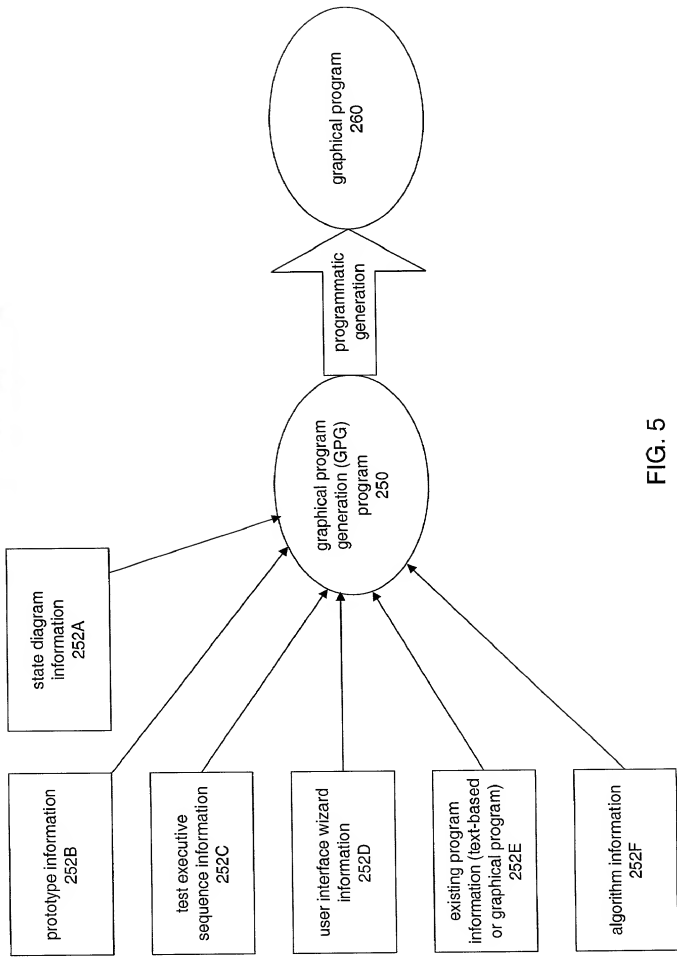


FIG. 5

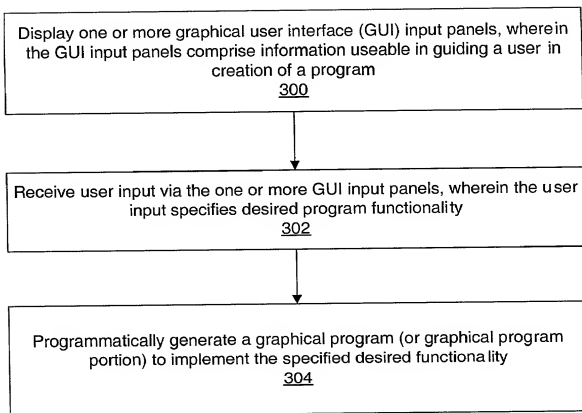


FIG. 6

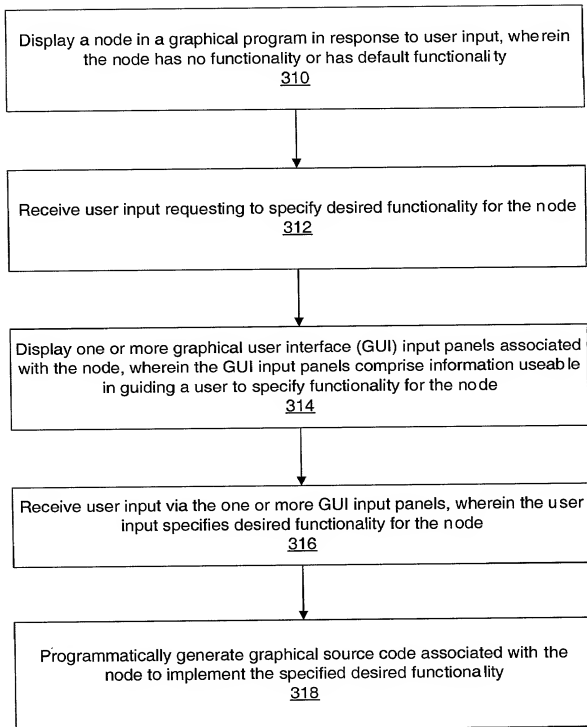


FIG. 7



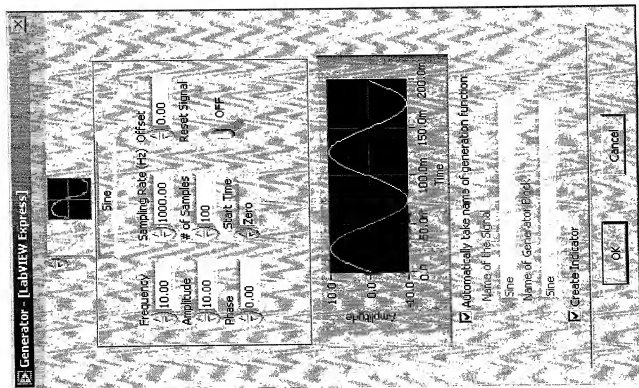


FIG. 8

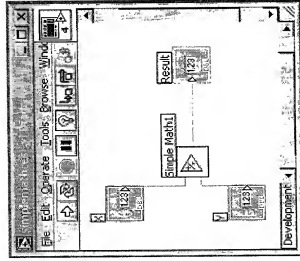


FIG. 9

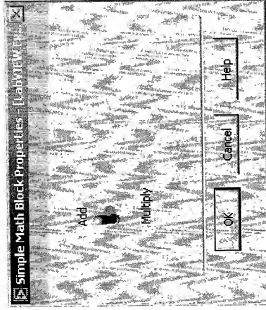


FIG. 10

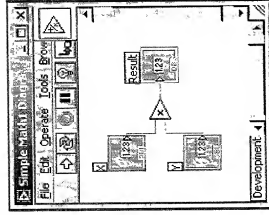


FIG. 11

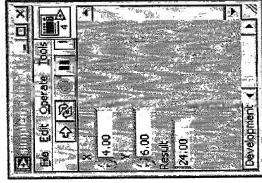


FIG. 12

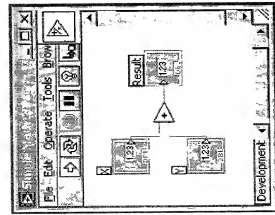


FIG. 13

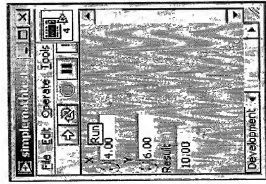


FIG. 14

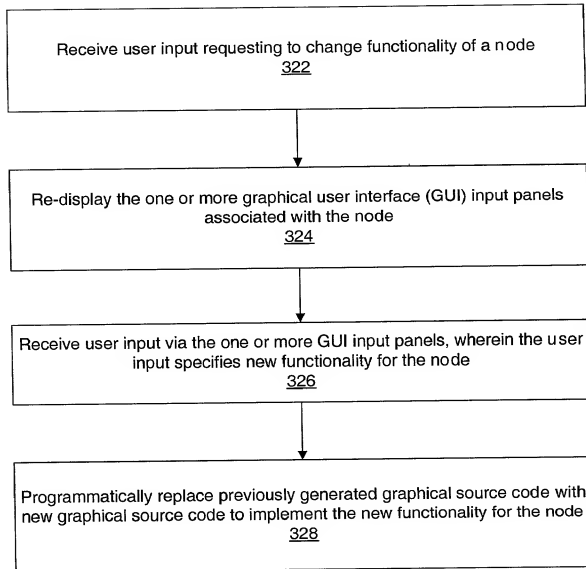


FIG. 15

Display information indicating a plurality of program processes, wherein each program process has a corresponding graphical program template, wherein each graphical program template comprises a plurality of interconnected nodes

400

Receive user input selecting a desired program process from the plurality of program processes

402

Programmatically include the graphical program template corresponding to the selected program process in the graphical program in response to the user input, for performing the selected program process

404

Display graphical user interface (GUI) input panel(s) to receive user input specifying desired functionality for one or more included nodes and programmatically generate graphical source code for the one or more nodes

406

FIG. 16

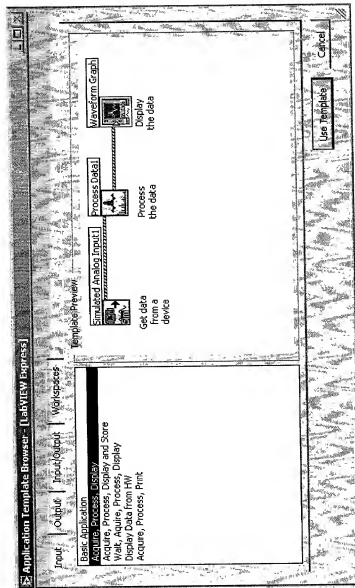


FIG. 17

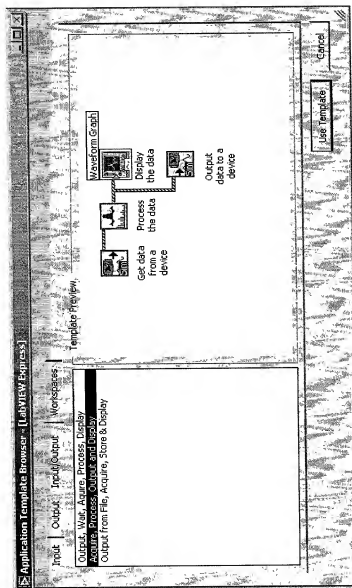


FIG. 18

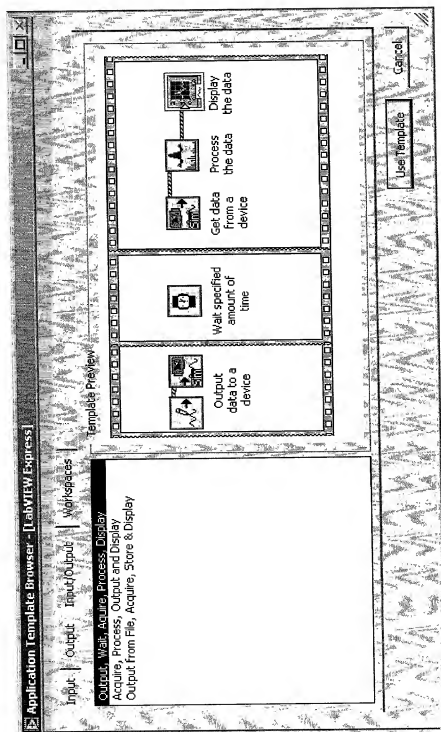


FIG. 19



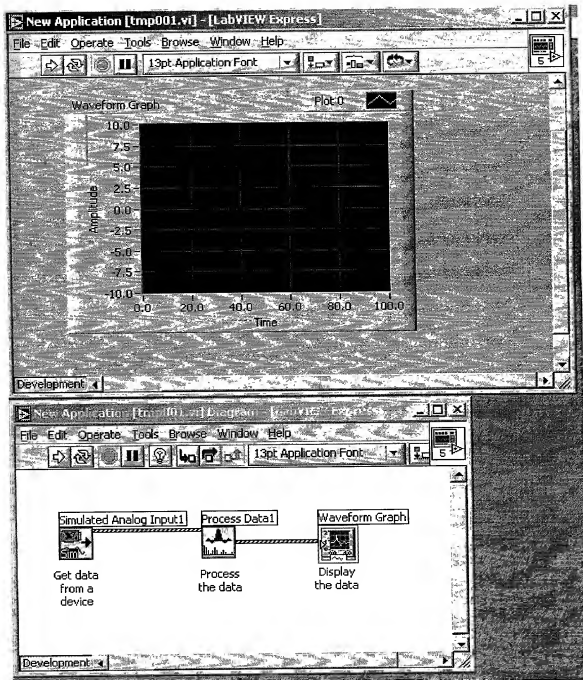


FIG. 20

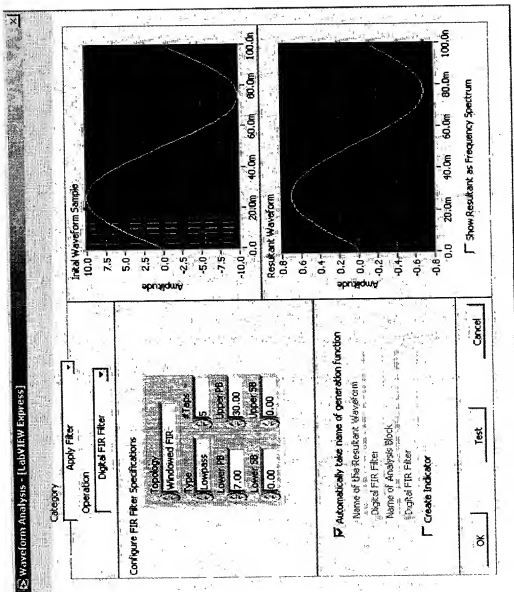


FIG. 21

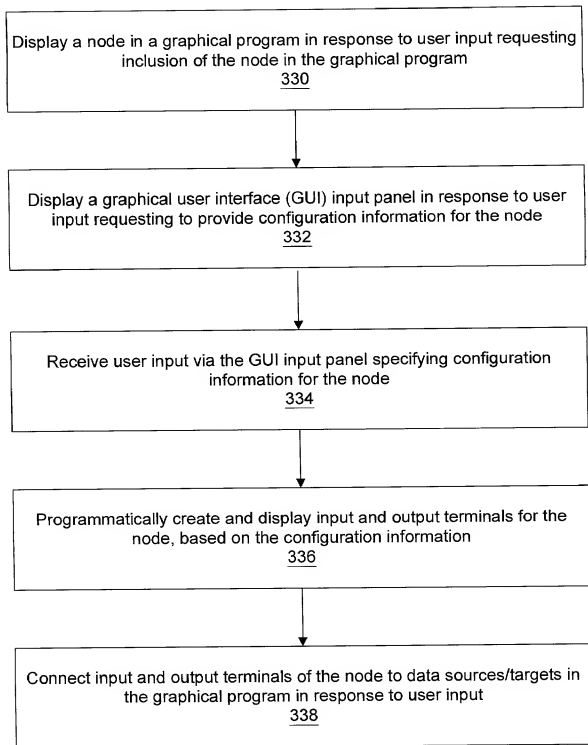


FIG. 22

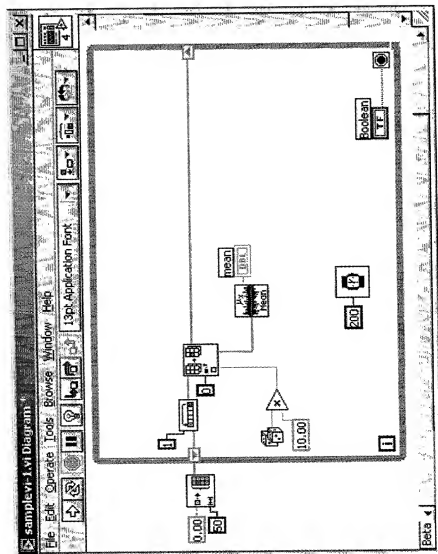


FIG. 23  
(PRIOR ART)

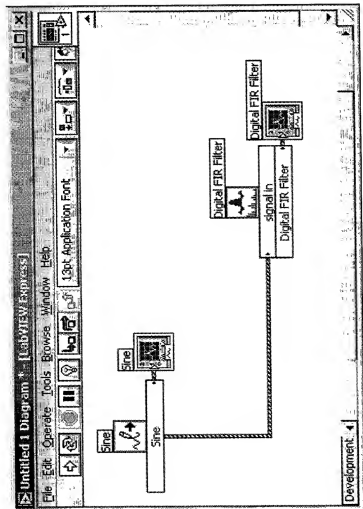


FIG. 24

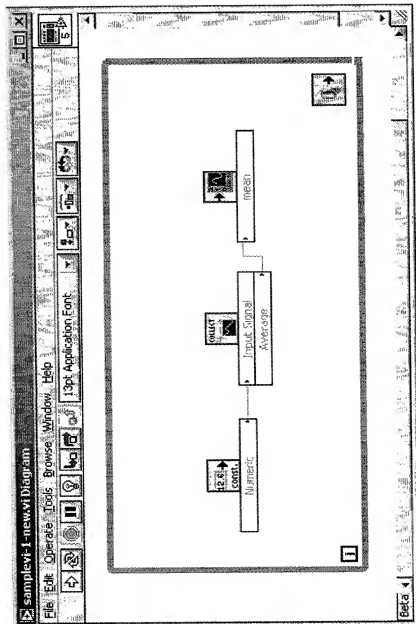


FIG. 25

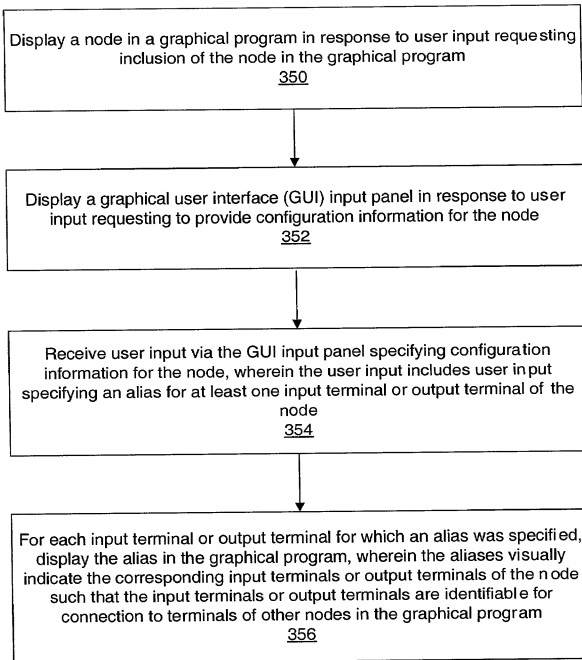


FIG. 26



FIG. 27



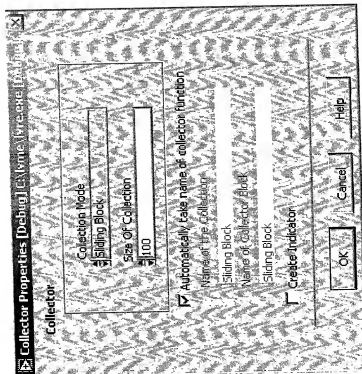


FIG. 28

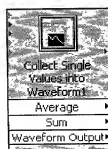


FIG. 29

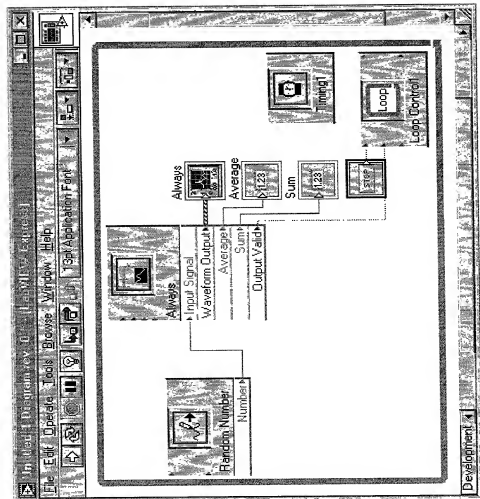
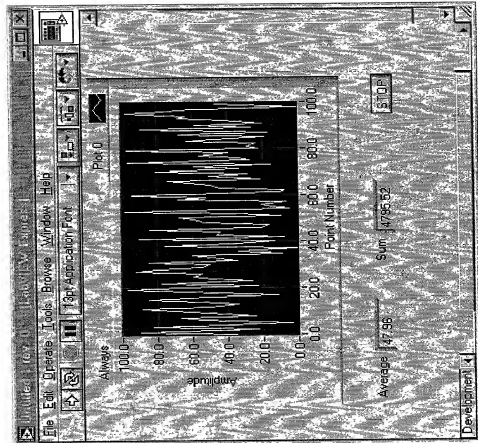


FIG. 30

[illegible]

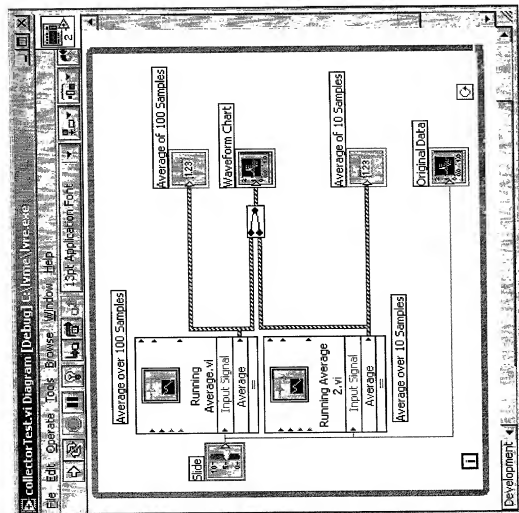


FIG. 32

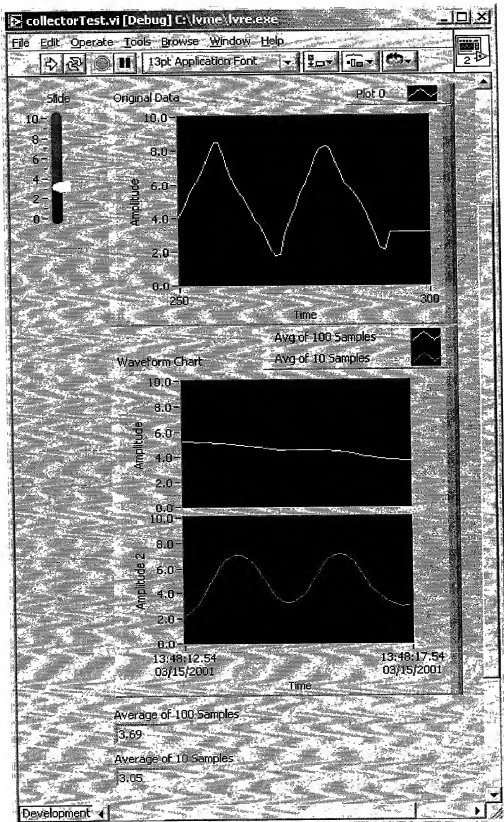


FIG. 33

[illegible]